

ULTRASONIC INSPECTION DEVICE FOR INSPECTING COMPONENTS AT PRESET ANGLES

ABSTRACT OF THE DISCLOSURE

5 There is provided an ultrasonic inspection device that provides a locking
mechanism for inspecting components at preset angles. The inspection device can
inspect a component along an arc by inspecting the component at each preset angle,
which provides complete and repeatable inspection results. The inspection device
comprises a housing with a channel for the passage of an ultrasonic signal and an
10 ultrasonic transducer to transmit and receive the ultrasonic signals. The housing also
includes a rotating reflector to reflect the ultrasonic signal. Using a handle on the
housing rotatably attached to the rotating reflector, a technician can rotatably position
and lock the rotating reflector at a preset angle. The rotating reflector can be rotatably
locked by a spring-loaded ball that is selectively received in detents defined by the
15 rotating reflector or handle.

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